

New York State Department of Transportation

Yellow Flag NB23U4W004

By: Malav Shah

Flag Date: April 07, 2023

Superseding Information:

This flag supersedes: YF NB2228W011

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 07, 2023 2:00:00 PM

Of: NYSDOT Region 11

Signature Information

Signature: Malav Shah, P.E. 106620-1

Date: April 25, 2023

Reviewed By: Robert Kemp

Date: April 25, 2023

Attachments: 4

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 102			
	PR311 - Movable Bearing	17	each

Flagged Condition Description

This Yellow Flag No. NB23U4W004 supersedes existing Yellow Flag No. NB2228W011.

Location: Span 103 Girder G15 Bearing at Pier 102

Description:

The expansion bearing under Girder G15 on Span 103 side of Pier 102 is not functioning as designed. The bearing plate is presently overhanging the pedestal for 1/2" at right side of the bearing at a temperature of 54 degree F, (previously noted in the last inspection to be flush with the pedestal at both sides of the bearing at 55 degree F). Additionally, the sliding bearing plate is loose and moves when the inspection team hammers at the bearing plate (same as the previous inspection). The front keeper plate at the bearing is missing.

The bearing exhibits up to 15% section loss.

Notes:

1. The right guide angle exhibits an area of 100% section loss at the top for 5" x 5" and at the bottom for 4" x 2" (no change from the previous inspection).
2. The left guide angle exhibits up to 50% section loss with a 1" diameter hole. The keeper plates at both sides of the bearing exhibit corrosion but are in generally good condition. Both guide angle bolts are broken or missing (no change from the previous).
3. The end of Girder G15 at the bearing exhibits 20% section loss in the lower web above the bottom flange and for the full web height adjacent to the guide angles (no change from the previous).
4. The joint seal that was noted in the previous inspection to be hanging in Bay 14 was not observed this inspection.
5. The adjacent Girder G14 is in generally good condition and has been recently painted.
6. The adjacent bearing under adjacent Girder G14 exhibits moderate to heavy corrosion with approximately 20% section loss to the bearing plate (no change from the previous). The cracked guide angles noted in the previous inspection, have been replaced.
7. The flagged condition is located above the center lane on 3rd Avenue EB roadway and was accessed using 30ft bucket truck with double left lane closure.

Flag Photographs

Photo Number: 1

Photo Filename: YF NB23U4W004 LOC. PLAN.JPG

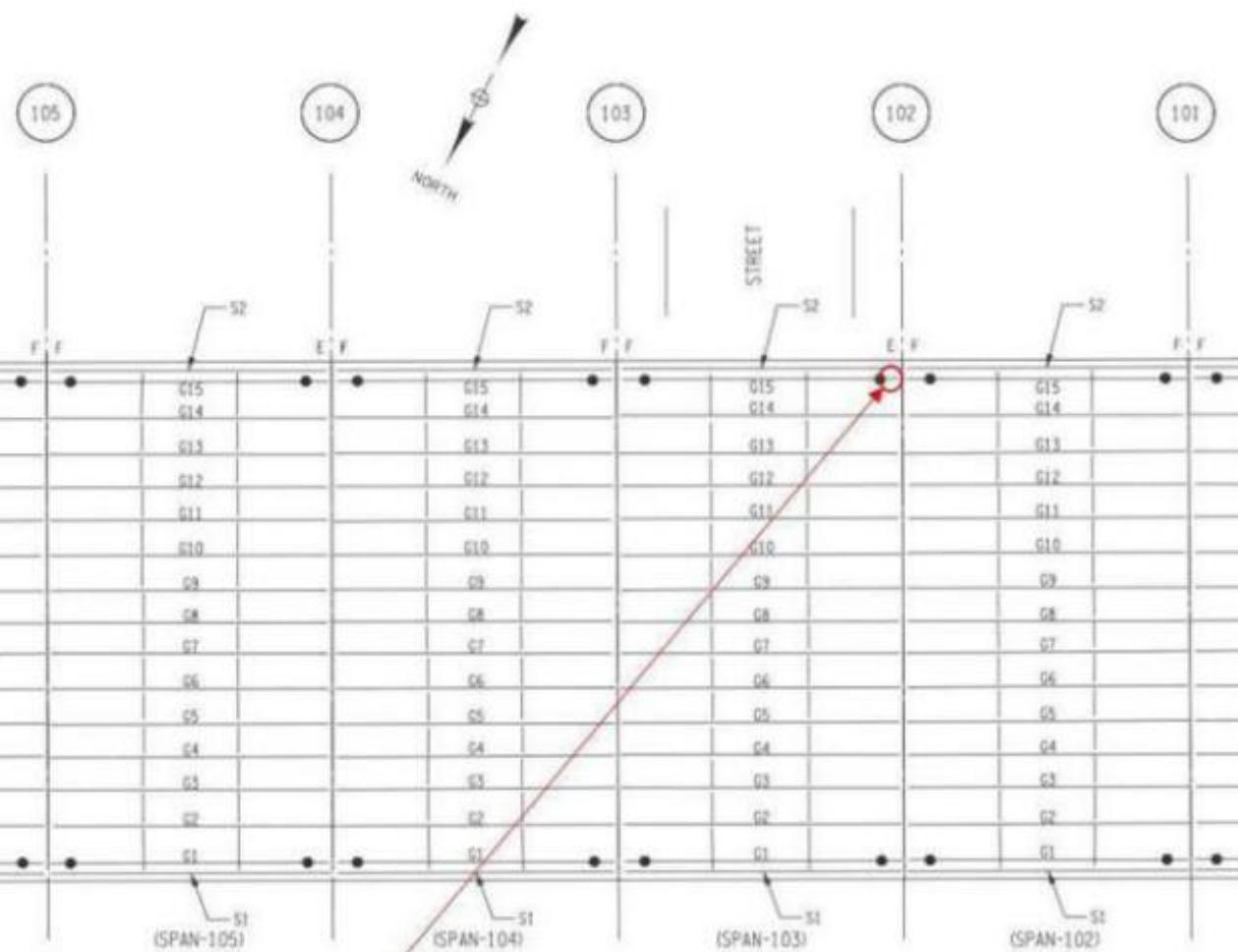
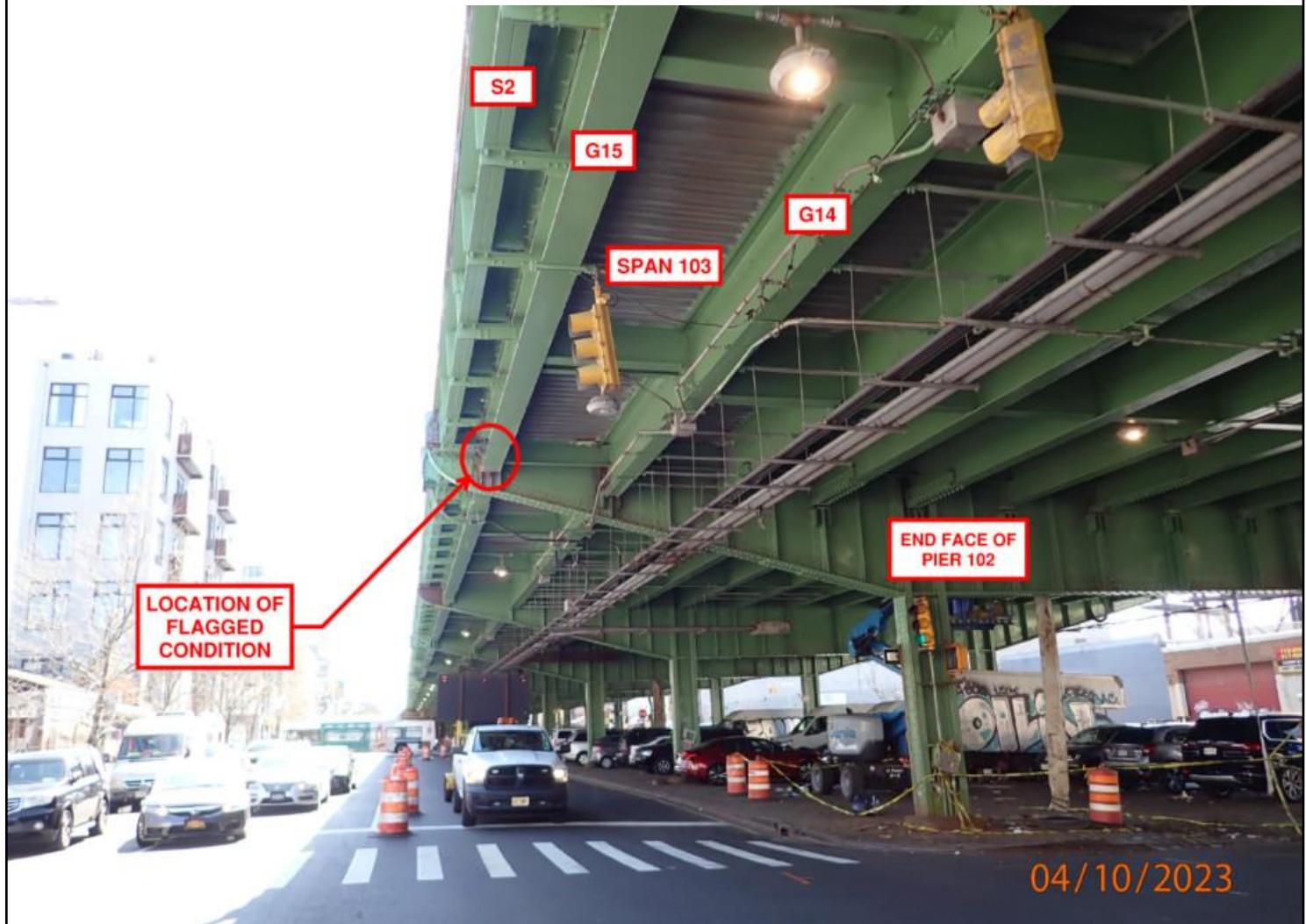
**Attachment Description: BIN 1065318, Framing Plan, Spans 102-105**

Photo Number: 2

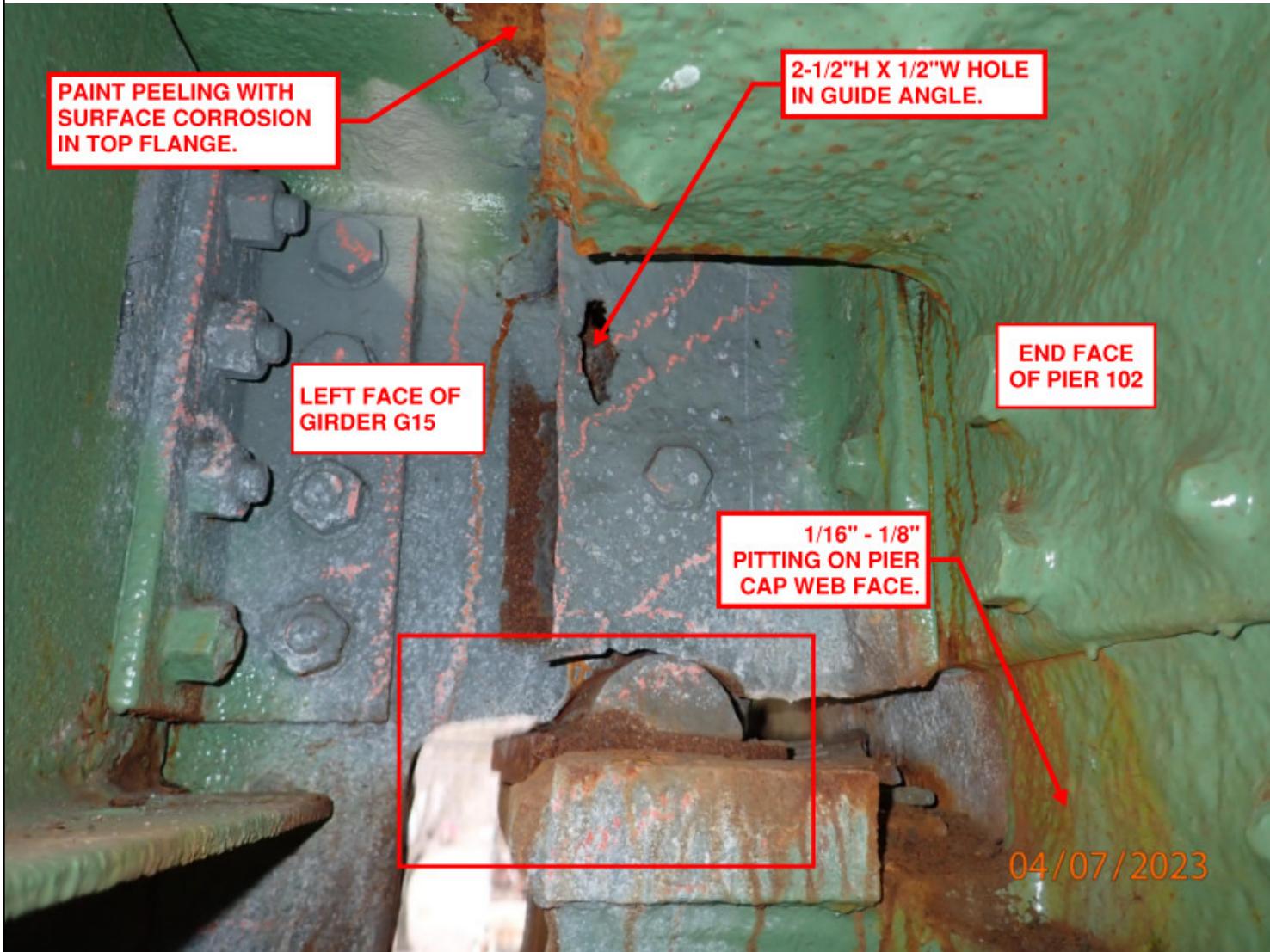
Photo Filename: P4102164.JPG



Attachment Description: General view of the flagged condition at the bearing under Girder G15 on the Span 103 side of Pier 102. Looking Begin

Photo Number: 3

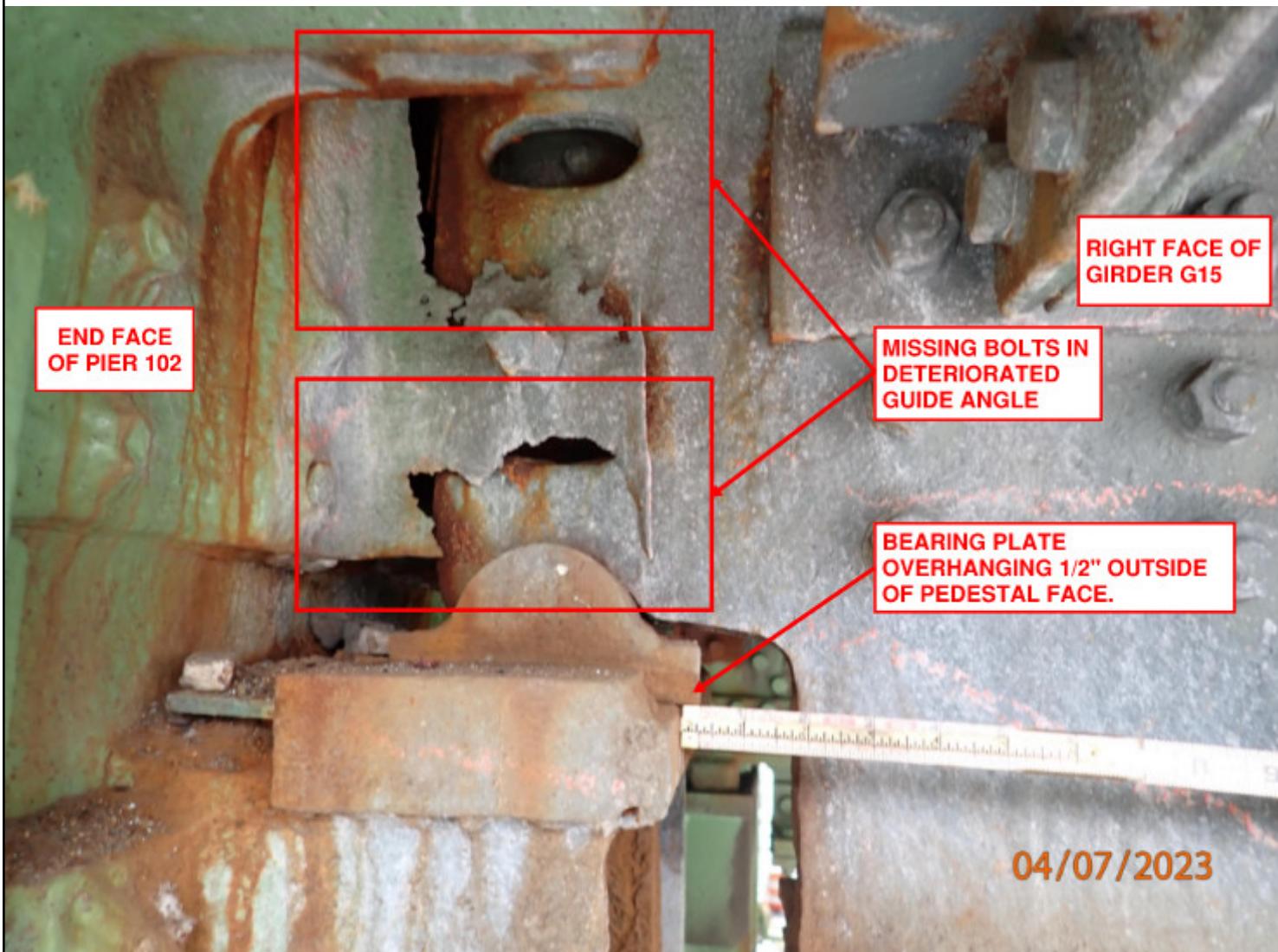
Photo Filename: P4072067.JPG



Attachment Description: The left face of the bearing under Girder G15 on the Span 103 side at Pier 102. The bearing plate is loose and is flush with the pedestal with the front keeper plate missing. Looking Right. Note: Additional deterioration noted for reference only.

Photo Number: 4

Photo Filename: P4072058.JPG



Attachment Description: The right face of the bearing under Girder G15 on the Span 103 side at Pier 102. The bearing plate is loose and is overhanging the pedestal for 1/2" at right side, with areas of 100% section loss at the right guide angle. Looking Left.